# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 6975 | Luminous ADJ flux AND ( L1/L2 > "3" and "L1" > D) | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:33 |
| S2 | 0 | S1 AND electric$3 AND optic$4 AND pularity AND filter | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:02 |
| S3 | 185 | S1 AND electric$3 AND optic$4 ADJ filter | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:02 |
| S4 | 2658 | Luminous ADJ flux AND ( L1/L2 > "3" and "L1" > D) AND filter | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:34 |
| S5 | 17 | Luminous ADJ flux AND ( L1/L2 > "3" and "L1" > D) AND filter AND parting ADJ line | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:42 |
| S6 | 0 | transmission AND light AND emitt$3 AND conver$4 AND E/O AND filter AND lumin$4 AND detector AND receiver$1 AND radial NEAR cross AND parting ADJ line AND flux | US-PGPUB; USPAT | OR | ON | 2007/03/05 14:46 |
| S7 | 18 | Luminous ADJ flux AND ( L1/L2 > "3" and "L1" > D) AND filter AND parting ADJ line | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/06 11:27 |
| S8 | 66 | parting ADJ line$1 AND luminous ADJ flux AND cross or star ADJ filter | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:23 |
| S9 | 0 | cannon.as. and (yoshimi WITH Takamoto).in. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:24 |
| S10 | 0 | cannon.asn. and (yoshimi WITH Takamoto).in. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:24 |
| S11 | 0 | cannon and (yoshimi WITH Takamoto).in. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |
| S12 | 0 | cannon and (yoshimi WITH Takatomo).in. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |
| S13 | 0 | canon and (yoshimi WITH Takatomo).in. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |
| S14 | 51786 | canon | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |
| S15 | 0 | canon and takatomo | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |
| S16 | 2546 | canon and takashi | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:25 |

| S17 | 0 | canon and (omuro with takashi) | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:26 |
|---|---|---|---|---|---|---|
| S18 | 2234 | canon and (OPTICAL WITH TRANSMISSION) | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:26 |
| S19 | 111 | canon and (OPTICAL WITH TRANSMISSION) AND "398"/$.ccls. | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:43 |
| S20 | 1 | S18 AND parting ADJ line | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:31 |
| S21 | 905882 | S19 AND star filter | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:33 |
| S22 | 28 | "5479288" | US-PGPUB; USPAT | OR | ON | 2007/03/06 17:46 |
| S23 | 23 | "6285481" | US-PGPUB; USPAT | OR | ON | 2007/03/06 18:21 |
| S24 | 2921861 | parting ADJ line$1 AND star or cross filter | US-PGPUB; USPAT | OR | ON | 2007/03/06 18:22 |
| S25 | 7539 | S24 AND luminous ADJ flux AND parting lines NEAR2 SPOT | US-PGPUB; USPAT | OR | ON | 2007/03/06 18:57 |
| S26 | 189 | S25 AND position ADJ direct$4 | US-PGPUB; USPAT | OR | ON | 2007/03/06 18:33· |
| S27 | 81 | S25 AND position ADJ direct$4 AND filter | US-PGPUB; USPAT | OR | ON | 2007/03/06 18:33 |
| S28 | 522 | S24 AND luminous ADJ flux AND parting lines NEAR2 SPOT AND star OR cross ADJ filter | US-PGPUB; USPAT | OR | ON | 2007/03/06 19:49 |
| S29 | 0 | "10808022" | US-PGPUB; USPAT | OR | ON | 2007/03/06 19:50 |
| S30 | 8 | "808022" | US-PGPUB; USPAT | OR | ON | 2007/03/06 20:04 |
| S31 | 16664 | signal ADJ processing ADJ unit | US-PGPUB; USPAT | OR | ON | 2007/03/06 20:05 |
| S32 | 74 | signal ADJ processing ADJ unit AND O/E | US-PGPUB; USPAT | OR | ON | 2007/03/06 20:10 |
| S33 | 1 | "20020024808" | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:20 |
| S34 | 170 | 362/305/.ccls. | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:23 |
| S35 | 219 | 398/129.ccls. | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:21 |
| S36 | 0 | S34 AND S35 | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:21 |
| S37 | 0 | S35 AND lumi9nous ADJ flux AND parting ADJ line$2 | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:22′ |

# EAST Search History

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|---|---|---|---|---|---|---|
| S38 | 0 | S35 AND luminous ADJ flux AND parting ADJ line$2 | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:22 |
| S39 | 2 | S34 AND luminous NEAr flux AND parting ADj line$1 | US-PGPUB; USPAT | OR | ON | 2007/03/06 21:23 |
| S40 | 1 | 10/809300 | US-PGPUB; USPAT | OR | ON | 2007/09/08 16:51 |
| S41 | 1 | ("5644375").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/08 18:32 |
| S42 | 0 | ("photodetector@1with(lightwithreceiv$4withelement$1)").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/08 18:34 |
| S43 | 3616 | photodetector$1 with (light with receiv$4 with element$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:04 |
| S44 | 37 | S43 and (parting adj line$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:04 |
| S45 | 3616 | S43 and (L < "10") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:04 |
| S46 | 37 | S44 and (L< "10") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:09 |
| S47 | 0 | ("1.2 x L<D<10xL") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:10 |
| S48 | 0 | ("1.2 x L< D") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:10 |
| S49 | 3727218 | "1.2" x X | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:10 |

# EAST Search History

| S50 | 3141 | "1.2" Near2 X | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:11 |
|-----|------|---------------|---------------------------------------------|-----|-----|------------------|
| S51 | 21 | S50 and photodetector | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:15 |
| S52 | 75447 | optical near2 transmit$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:16 |
| S53 | 9651 | S52 and (Photodetector) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:16 |
| S54 | 9651 | S53 and (L<D) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:16 |
| S55 | 3963 | S53 and (L) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:16 |
| S56 | 242 | S55 and (L near2 D) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:27 |
| S57 | 4792 | photodetector Near5 (sin$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:28 |
| S58 | 1229 | S57 and (relation) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:28 |
| S59 | 23513 | S58 (sin$3 near2 D) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:29 |

| S60 | 3942019 | S58 (sin$3 ) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:29 |
|-----|---------|--------------|------|----|----|------------------|
| S61 | 35 | S58 and (D near2 L) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:38 |
| S62 | 3039 | LCD with (fault or error) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:38 |
| S63 | 115 | S62 and (multiplex$3 and lead) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:39 |
| S64 | 115 | S63 and (fault or error) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:39 |
| S65 | 100 | S64 and (driv$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:45 |
| S66 | 18995 | LCD Near2 (driv$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:45 |
| S67 | 782 | (repair$3) and S66 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:46 |
| S68 | 0 | S67 and (Multiplex$3 with lead with connect$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:47 |
| S69 | 0 | S67 and (Multiplex$3 with lead near2 connect$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 19:47 |

# EAST Search History

| S70 | 68 | S67 and ( lead near2 connect$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/08 20:16 |
|---|---|---|---|---|---|---|
| S71 | 1162 | ((OSAMU) near2 (KOBAYASHI)). INV. | EPO; JPO; DERWENT | OR | ON | 2007/09/09 14:50 |
| S72 | 500 | 398/135.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:06 |
| S73 | 4864461 | (separat$4 adj band or group) neat4 width | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:07 |
| S74 | 203 | S72 and S73 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:07 |
| S75 | 0 | S74 and ((shifh$4 or mov$3 adj distance)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:09 |
| S76 | 0 | S74 and ((shift near2 width) or (width near2 shift) ) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:09 |
| S77 | 0 | S74 and ((shift near2 width) ) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:10 |
| S78 | 124 | S74 and ( width) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:18 |
| S79 | 1648572 | S73 and ("1.2" L) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:19 |

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|---|---|---|---|---|---|---|
| S80 | 4864461 | S73 and ("1.2" L<D<10L) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:20 |
| S81 | 3717 | S73 and ("1.2" near2 length) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:20 |
| S82 | 1812 | S81 and (photodetector near2 light receiving element) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:21 |
| S83 | 0 | S81 and (photodetector near2 (light adj receiv$3 adj element$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:22 |
| S84 | 5 | S81 and (photodetector near4 element$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 15:27 |
| S85 | 227 | 398/129.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 16:13 |
| S86 | 1 | 10/809300 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 16:22 |
| S87 | 0 | "1.2.times.L.ltoreq.D<10.times.L." | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 16:22 |
| S88 | 0 | ("1.2") near1 (L near2 (D<S76)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 16:23 |
| S89 | 0 | (L near2 (D<S76)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 16:24 |

| S90 | 2 | D near4 ( width with separat$3 with zon$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:20 |
|-----|------|-------------------------------------------|---------------------------------------------|----|----|-----------------|
| S91 | 0 | (L1/L2) > "3" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:23 |
| S92 | 1610 | (L1/L2) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:23 |
| S93 | 551 | S92 and (width) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:23 |
| S94 | 1 | S93 and (spot adj shape) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:24 |
| S95 | 0 | S93 and (398/128-131.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:25 |
| S96 | 664 | (398/128-131.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:25 |
| S97 | 0 | S93 and S96 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:25 |
| S98 | 181 | 362/305.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:25 |
| S99 | 0 | S93 and S98 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:25 |

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|---|---|---|---|---|---|---|
| S10 0 | 510 | (photo adj detector) adj (element$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:26 |
| S10 1 | 570 | S92 and "36" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:27 |
| S10 2 | 153 | S101 and (shift) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/09/09 19:27 |